1/11

MT Cpn 60.1

```
1    ATGAGCAAGCTGATCGAATACGACGAAACCGCGCGTCGCGCCATGGAGGTCGGCATGGAC   60
     M  S  K  L  I  E  Y  D  E  T  A  R  R  A  M  E  V  G  M  D
                .        .        .        .        .        .
61   AAGCTGGCCGACACCGTGCGGGTGACGCTGGGGCCGCGCGGCCGGCATGTGGTGCTGGCC  120
     K  L  A  D  T  V  R  V  T  L  G  P  R  G  R  H  V  V  L  A
                .        .        .        .        .        .
121  AAGGCGTTTGGCGGACCCACGGTTACCAACGACGGCGTCACGGTGGCACGTGAGATCGAG  180
     K  A  F  G  G  P  T  V  T  N  D  G  V  T  V  A  R  E  I  E
                .        .        .        .        .        .
181  CTGGAAGATCCGTTTGAAGACTTGGGCGCCCAGCTGGTGAAGTCGGTGGCCACCAAGACC  240
     L  E  D  P  F  E  D  L  G  A  Q  L  V  K  S  V  A  T  K  T
                .        .        .        .        .        .
241  AACGATGTGGCCGGTGACGGCACCACCACCGCAACCATCTTGGCGCAGGCACTGATCAAG  300
     N  D  V  A  G  D  G  T  T  T  A  T  I  L  A  Q  A  L  I  K
                .        .     n  .        .        .        .
301  GGCGGCCTGAGGCTAGTGGCCGCCGGCGTCAACCCGATCGCGCTCGGCGTGGGAATCGGC  360
     G  G  L  R  L  V  A  A  G  V  N  P  I  A  L  G  V  G  I  G
                .        .        .        .        .        .
361  AAGGCCGCCGACGCGGTATCCGAGGCGCTGCTGGCATCGGCCACGCCGGTGTCCGGCAAG  420
     K  A  A  D  A  V  S  E  A  L  L  A  S  A  T  P  V  S  G  K
                .        .        .        .        .        .
421  ACCGGCATCGCGCAGGTGGCGACGGTGTCCTCGCGCGACGAGCAGATCGGTGACCTGGTT  480
     T  G  I  A  Q  V  A  T  V  S  S  R  D  E  Q  I  G  D  L  V
                .        .        .        .        .        .
481  GGCGAAGCGATGAGCAAGGTCGGCCACGACGGCGTGGTCAGCGTCGAAGAATCCTCGACG  540
     G  E  A  M  S  K  V  G  H  D  G  V  V  S  V  E  E  S  S  T
                .        .        .        .        .        .
541  CTGGGCACCGAGTTGGAGTTCACCGAGGGTATCGGCTTCGACAAGGGCTTCTTGTCGGCA  600
     L  G  T  E  L  E  F  T  E  G  I  G  F  D  K  G  F  L  S  A
                .        .        .        .        .        .
601  TACTTCGTTACCGACTTCGATAACCAGCAGGCGGTGCTCGAGGACGCGTTGATCCTGCTG  660
     Y  F  V  T  D  F  D  N  Q  Q  A  V  L  E  D  A  L  I  L  L
                .        .        .        .        .        .
661  CACCAAGACAAGATCAGCTCGCTTCCCGATCTGTTGCCATTGCTGGAAAAGGTTGCAGGA  720
     H  Q  D  K  I  S  S  L  P  D  L  L  P  L  L  E  K  V  A  G
                .        .        .        .        .        .
721  ACGGGTAAGCCACTACTGATCGTGGCTGAAGACGTGGAGGGCGAAGCGTTGGCGACGCTG  780
     T  G  K  P  L  L  I  V  A  E  D  V  E  G  E  A  L  A  T  L
                .        .        .        .        .        .
781  GTCGTCAACGCGATTCGCAAGACGTTGAAAGCGGTCGCGGTCAAGGGGCCGTACTTCGGT  840
     V  V  N  A  I  R  K  T  L  K  A  V  A  V  K  G  P  Y  F  G
                .        .        .        .        .        .
841  GACCGCCGTAAGGCGTTCCTTGAGGACCTGGCGGTGGTGACGGGTGGCCAGGTGGTCAAC  900
     D  R  R  K  A  F  L  E  D  L  A  V  V  T  G  G  Q  V  V  N
                .        .        .        .        .        .
```

Fig. 1 (Part 1 of 2)

2/11

```
901   CCCGACGCCGGCATGGTGCTGCGCGAGGTGGGCTTGGAGGTGCTGGGCTCGGCCCGACGC   960
      P  D  A  G  M  V  L  R  E  V  G  L  E  V  L  G  S  A  R  R
                .        .        .        .        .        .
961   GTGGTGGTCAGCAAGGACGACACGGTCATTGTCGACGGCGGCGGCACCGCAGAAGCGGTG   1020
      V  V  V  S  K  D  D  T  V  I  V  D  G  G  G  T  A  E  A  V
                .        .        .        .        .        .
1021  GCCAACCGGGCGAAGCACTTGCGTGCCGAGATCGACAAGAGCGATTCGGATTGGGATCGG   1080
      A  N  R  A  K  H  L  R  A  E  I  D  K  S  D  S  D  W  D  R
                .        .        .        .        .        .
1081  GAAAAGCTTGGCGAGCGGCTGGCCAAACTGGCCGGCGGGGTTGCTGTCATCAAGGTGGGT   1140
      E  K  L  G  E  R  L  A  K  L  A  G  G  V  A  V  I  K  V  G
                .        .        .        .        .        .
1141  GCCGCCACCGAGACCGCACTCAAGGAGCGCAAGGAAAGCGTCGAGGATGCGGTCGCGGCC   1200
      A  A  T  E  T  A  L  K  E  R  K  E  S  V  E  D  A  V  A  A
                .        .        .        .        .        .
1201  GCCAAGGCCGCGGTCGAGGAGGGCATCGTCCCTGGTGGGGGAGCCTCGCTCATCCACCAG   1260
      A  K  A  A  V  E  E  G  I  V  P  G  G  G  A  S  L  I  H  Q
                .        .        .        .        .        .
1261  GCCCGCAAGGCGCTGACCGAACTGCGTGCGTCGCTGACCGGTGACGAGGTCCTCGGTGTC   1320
      A  R  K  A  L  T  E  L  R  A  S  L  T  G  D  E  V  L  G  V
                .        .        .        .        .        .
1321  GACGTGTTCTCCGAAGCCCTTGCCGCGCCGTTGTTCTGGATCGCCGCCAACGCTGGCTTG   1380
      D  V  F  S  E  A  L  A  A  P  L  F  W  I  A  A  N  A  G  L
                .        .        .        .        .        .
1381  GACGGCTCGGTGGTGGTCAACAAGGTCAGCGAGCTACCCGCCGGGCATGGGCTGAACGTG   1440
      D  G  S  V  V  V  N  K  V  S  E  L  P  A  G  H  G  L  N  V
                .        .        .        .        .        .
1441  AACACCCTGAGCTATGGTGACTTGGCCGCTGACGGCGTCATCGACCCGGTCAAGGTGACT   1500
      N  T  L  S  Y  G  D  L  A  A  D  G  V  I  D  P  V  K  V  T
                .        .        .        .        .        .
1501  AGGTCGGCGGTGTTGAACGCGTCATCGGTTGCCCGGATGGTACTCACCACCGAGACGGTC   1560
      R  S  A  V  L  N  A  S  S  V  A  R  M  V  L  T  T  E  T  V
                .        .        .        .        .        .
1561  GTGGTCGACAAGCCGGCCAAGGCAGAAGATCACGACCATCACCACGGGCACGCGCACTGA   1620
      V  V  D  K  P  A  K  A  E  D  H  D  H  H  H  G  H  A  H  *
```

Fig. 1 (Part 2 of 2)

3/11

Mt Cpn60.2

```
1   ATGGCCAAGACAATTGCGTACGACGAAGAGGCCCGTCGCGGCCTCGAGCGGGGCTTGAAC   60
    M  A  K  T  I  A  Y  D  E  E  A  R  R  G  L  E  R  G  L  N

61  GCCCTCGCCGATGCGGTAAAGGTGACATTGGGCCCCAAGGGCCGCAACGTCGTCCTGGAA  120
    A  L  A  D  A  V  K  V  T  L  G  P  K  G  R  N  V  V  L  E

121 AAGAAGTGGGGTGCCCCCACGATCACCAACGATGGTGTGTCCATCGCCAAGGAGATCGAG  180
    K  K  W  G  A  P  T  I  T  N  D  G  V  S  I  A  K  E  I  E

181 CTGGAGGATCCGTACGAGAAGATCGGCGCCGAGCTGGTCAAAGAGGTAGCCAAGAAGACC  240
    L  E  D  P  Y  E  K  I  G  A  E  L  V  K  E  V  A  K  K  T

241 GATGACGTCGCCGGTGACGGCACCACGACGGCCACCGTGCTGGCCCAGGCGTTGGTTCGC  300
    D  D  V  A  G  D  G  T  T  T  A  T  V  L  A  Q  A  L  V  R

301 GAGGGCCTGCGCAACGTCGCGGCCGGCGCCAACCCGCTCGGTCTCAAACGCGGCATCGAA  360
    E  G  L  R  N  V  A  A  G  A  N  P  L  G  L  K  R  G  I  E

361 AAGGCCGTGGAGAAGGTCACCGAGACCCTGCTCAAGGGCGCCAAGGAGGTCGAGACCAAG  420
    K  A  V  E  K  V  T  E  T  L  L  K  G  A  K  E  V  E  T  K

421 GAGCAGATTGCGGCCACCGCAGCGATTTCGGCGGGTGACCAGTCCATCGGTGACCTGATC  480
    E  Q  I  A  A  T  A  A  I  S  A  G  D  Q  S  I  G  D  L  I

481 GCCGAGGCGATGGACAAGGTGGGCAACGAGGGCGTCATCACCGTCGAGGAGTCCAACACC  540
    A  E  A  M  D  K  V  G  N  E  G  V  I  T  V  E  E  S  N  T

541 TTTGGGCTGCAGCTCGAGCTCACCGAGGGTATGCGGTTCGACAAGGGCTACATCTCGGGG  600
    F  G  L  Q  L  E  L  T  E  G  M  R  F  D  K  G  Y  I  S  G

601 TACTTCGTGACCGACCCGGAGCGTCAGGAGGCGGTCCTGGAGGACCCCTACATCCTGCTG  660
    Y  F  V  T  D  P  E  R  Q  E  A  V  L  E  D  P  Y  I  L  L

661 GTCAGCTCCAAGGTGTCCACTGTCAAGGATCTGCTGCCGCTGCTCGAGAAGGTCATCGGA  720
    V  S  S  K  V  S  T  V  K  D  L  L  P  L  L  E  K  V  I  G

721 GCCGGTAAGCCGCTGCTGATCATCGCCGAGGACGTCGAGGGCGAGGCGCTGTCCACCCTG  780
    A  G  K  P  L  L  I  I  A  E  D  V  E  G  E  A  L  S  T  L

781 GTCGTCAACAAGATCCGCGGCACCTTCAAGTCGGTGGCGGTCAAGGCTCCCGGCTTCGGC  840
    V  V  N  K  I  R  G  T  F  K  S  V  A  V  K  A  P  G  F  G
```

Fig. 2 (Part 1 of 2)

```
841  GACCGCCGCAAGGCGATGCTGCAGGATATGGCCATTCTCACCGGTGGTCAGGTGATCAGC  900
     D  R  R  K  A  M  L  Q  D  M  A  I  L  T  G  G  Q  V  I  S

901  GAAGAGGTCGGCCTGACGCTGGAGAACGCCGACCTGTCGCTGCTAGGCAAGGCCCGCAAG  960
     E  E  V  G  L  T  L  E  N  A  D  L  S  L  L  G  K  A  R  K

961  GTCGTGGTCACCAAGGACGAGACCACCATCGTCGAGGGCGCCGGTGACACCGACGCCATC  1020
     V  V  V  T  K  D  E  T  T  I  V  E  G  A  G  D  T  D  A  I

1021 GCCGGACGAGTGGCCCAGATCCGCCAGGAGATCGAGAACAGCGACTCCGACTACGACCGT  1080
     A  G  R  V  A  Q  I  R  Q  E  I  E  N  S  D  S  D  Y  D  R

1081 GAGAAGCTGCAGGAGCGGCTGGCCAAGCTGGCCGGTGGTGTCGCGGTGATCAAGGCCGGT  1140
     E  K  L  Q  E  R  L  A  K  L  A  G  G  V  A  V  I  K  A  G

1141 GCCGCCACCGAGGTCGAACTCAAGGAGCGCAAGCACCGCATCGAGGATGCGGTTCGCAAT  1200
     A  A  T  E  V  E  L  K  E  R  K  H  R  I  E  D  A  V  R  N

1201 GCCAAGGCCGCCGTCGAGGAGGGCATCGTCGCCGGTGGGGGTGTGACGCTGTTGCAAGCG  1260
     A  K  A  A  V  E  E  G  I  V  A  G  G  G  V  T  L  L  Q  A

1261 GCCCCGACCCTGGACGAGCTGAAGCTCGAAGGCGACGAGGCGACCGGCGCCAACATCGTG  1320
     A  P  T  L  D  E  L  K  L  E  G  D  E  A  T  G  A  N  I  V

1321 AAGGTGGCGCTGGAGGCCCCGCTGAAGCAGATCGCCTTCAACTCCGGGCTGGAGCCGGGC  1380
     K  V  A  L  E  A  P  L  K  Q  I  A  F  N  S  G  L  E  P  G

1381 GTGGTGGCCGAGAAGGTGCGCAACCTGCCGGCTGGCCACGGACTGAACGCTCAGACCGGT  1440
     V  V  A  E  K  V  R  N  L  P  A  G  H  G  L  N  A  Q  T  G

1441 GTCTACGAGGATCTGCTCGCTGCCGGCGTTGCTGACCCGGTCAAGGTGACCCGTTCGGCG  1500
     V  Y  E  D  L  L  A  A  G  V  A  D  P  V  K  V  T  R  S  A

1501 CTGCAGAATGCGGCGTCCATCGCGGGGCTGTTCCTGACCACCGAGGCCGTCGTTGCCGAC  1560
     L  Q  N  A  A  S  I  A  G  L  F  L  T  T  E  A  V  V  A  D

1561 AAGCCGGAAAAGGAGAAGGCTTCCGTTCCCGGTGGCGGCGACATGGGTGGCATGGATTTC  1620
     K  P  E  K  E  K  A  S  V  P  G  G  G  D  M  G  G  M  D  F

1621 TGA                                                          1623
     *
```

Fig. 2 (Part 2 of 2)

5/11

MT Cpn 10

```
                .         .         .         .         .         .
  1   GTGGCGAAGGTGAACATCAAGCCACTCGAGGACAAGATTCTCGTGCAGGCCAACGAGGCC   60
      M  A  K  V  N  I  K  P  L  E  D  K  I  L  V  Q  A  N  E  A
                .         .         .         .         .         .
 61   GAGACCACGACCGCGTCCGGTCTGGTCATTCCTGACACCGCCAAGGAGAAGCCGCAGGAG  120
      E  T  T  T  A  S  G  L  V  I  P  D  T  A  K  E  K  P  Q  E
                .         .         .         .         .         .
121   GGCACCGTCGTTGCCGTCGGCCCTGGCCGGTGGGACGAGGACGGCGAGAAGCGGATCCCG  180
      G  T  V  V  A  V  G  P  G  R  W  D  E  D  G  E  K  R  I  P
                .         .         .         .         .         .
181   CTGGACGTTGCGGAGGGTGACACCGTCATCTACAGCAAGTACGGCGGCACCGAGATCAAG  240
      L  D  V  A  E  G  D  T  V  I  Y  S  K  Y  G  G  T  E  I  K
                .         .         .         .         .         .
241   TACAACGGCGAGGAATACCTGATCCTGTCGGCACGCGACGTGCTGGCCGTCGTTTCCAAG  300
      Y  N  G  E  E  Y  L  I  L  S  A  R  D  V  L  A  V  V  S  K
                .         .         .         .         .         .
301   TAG                                                          360
      *
```

Fig. 3

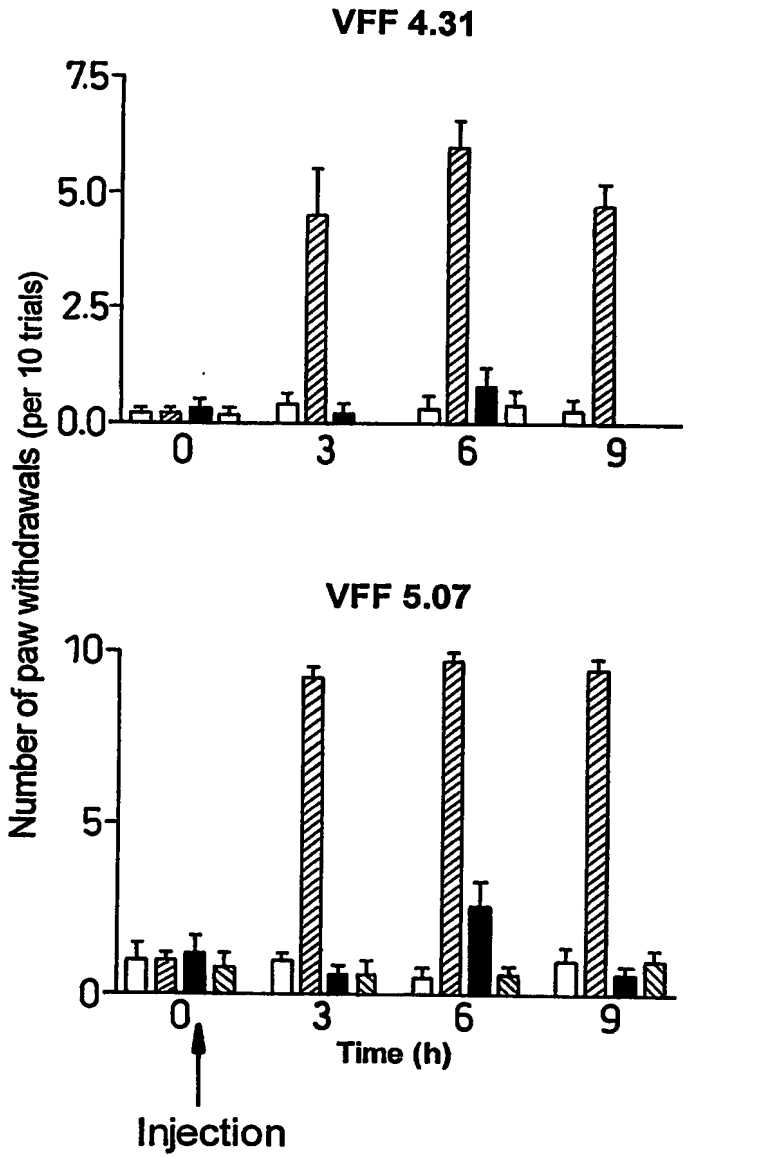
VFF 4.31
7.5
5.0
2.5
0.0
0
3
6
9
VFF 5.07
10
5
0
0
3
6
9
Time (h)
Number of paw withdrawals (per 10 trials)
Injection
CP.01 + ET
CP.01 (1µg/ip)
Non injected
Injected ET (1.25µg)

Fig. 4

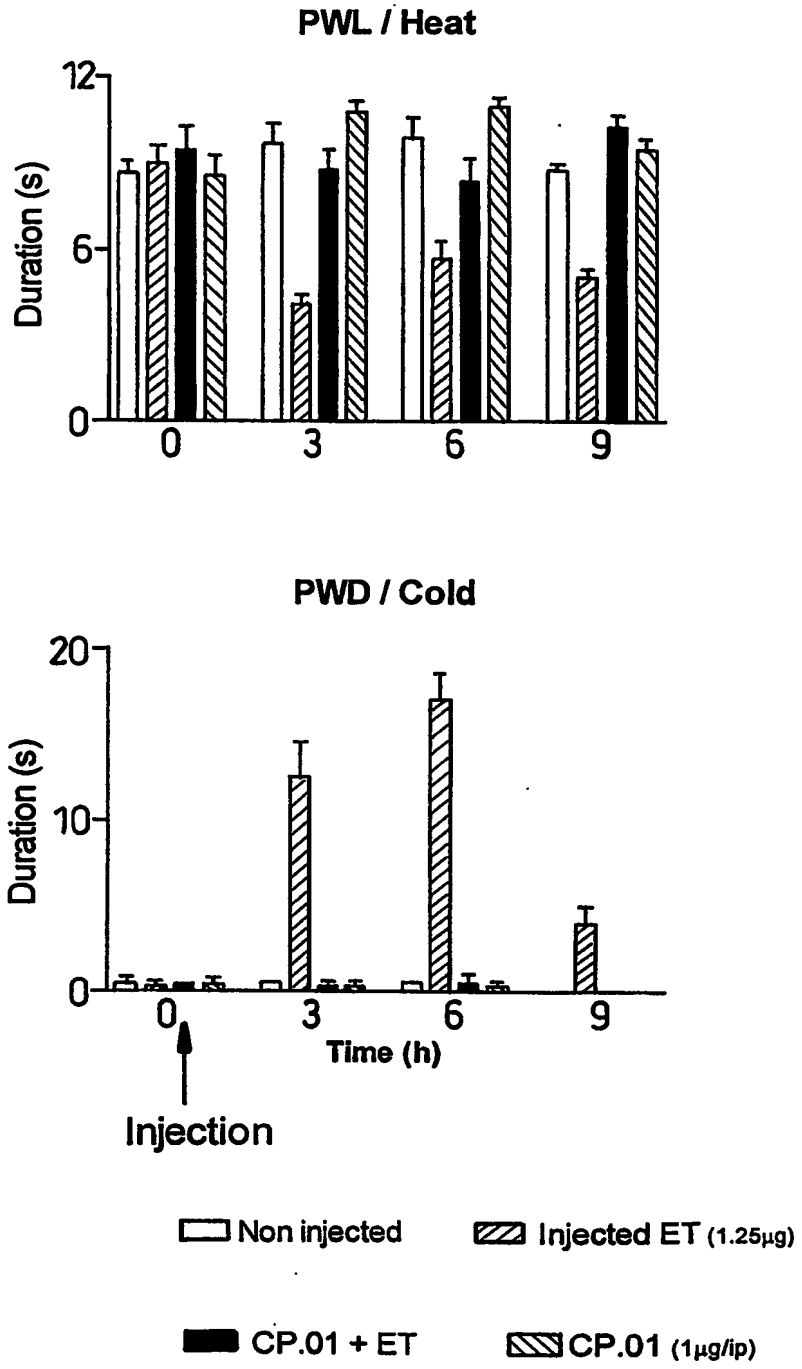
PWL / Heat
Duration (s)
12
6
0
0
3
6
9
PWD / Cold
Duration (s)
20
10
0
0
3
6
9
Time (h)
Injection
Non injected
Injected ET (1.25µg)
CP.01 + ET
CP.01 (1µg/ip)

Fig. 5

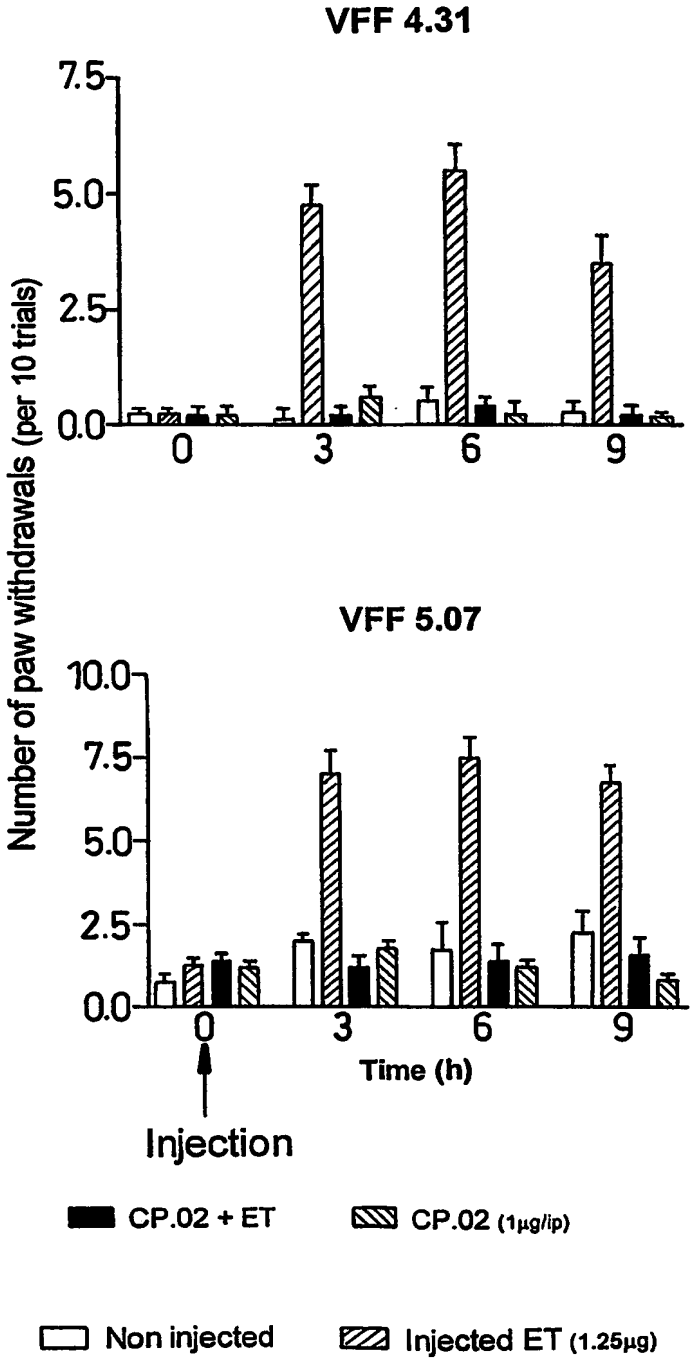
VFF 4.31
7.5
5.0
2.5
0.0
0
3
6
9
VFF 5.07
10.0
7.5
5.0
2.5
0.0
0
3
6
9
Time (h)
Number of paw withdrawals (per 10 trials)
Injection
CP.02 + ET
CP.02 (1µg/ip)
Non injected
Injected ET (1.25µg)

Fig. 6

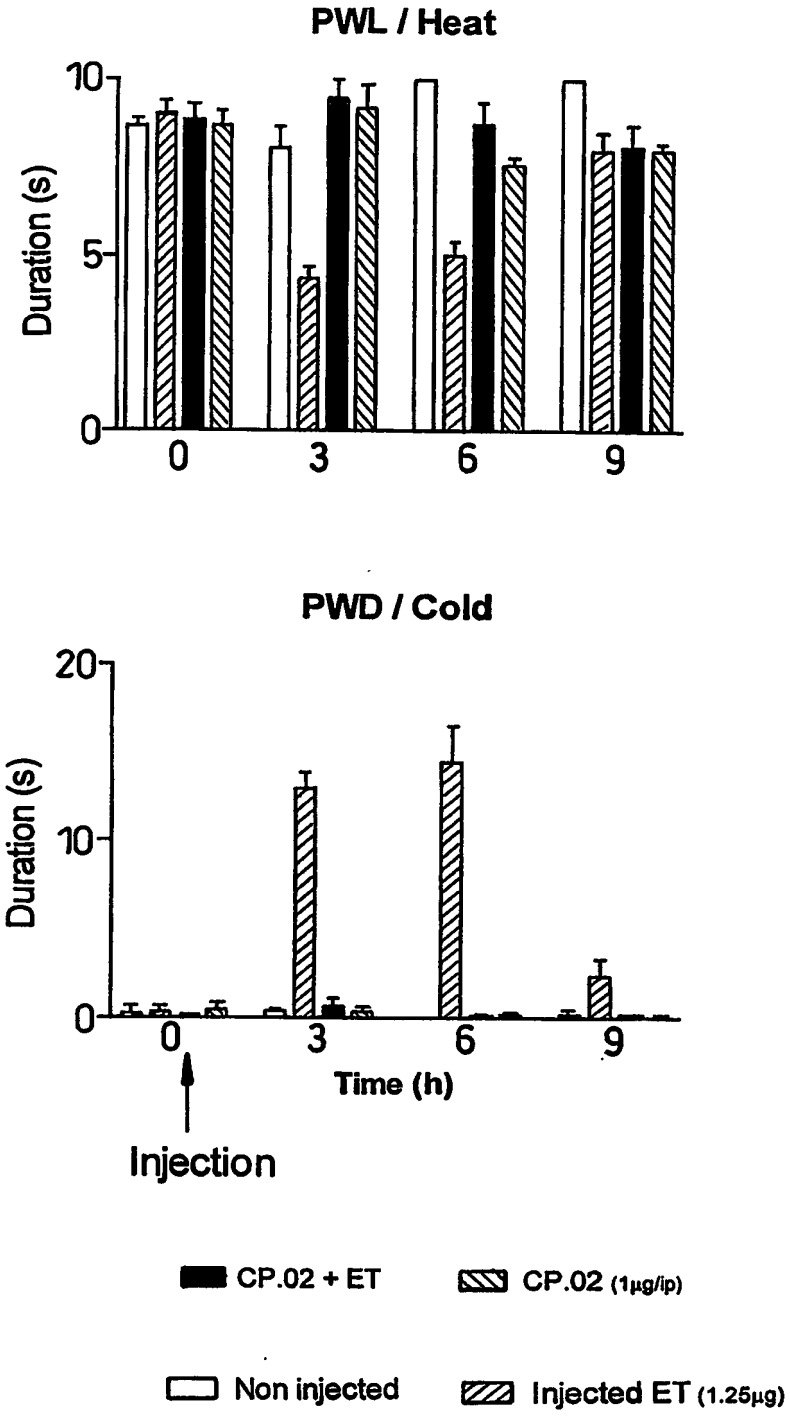
PWL / Heat
Duration (s)
10
5
0
0
3
6
9
PWD / Cold
Duration (s)
20
10
0
0
3
6
9
Time (h)
Injection
CP.02 + ET
CP.02 (1µg/ip)
Non injected
Injected ET (1.25µg)

Fig. 7

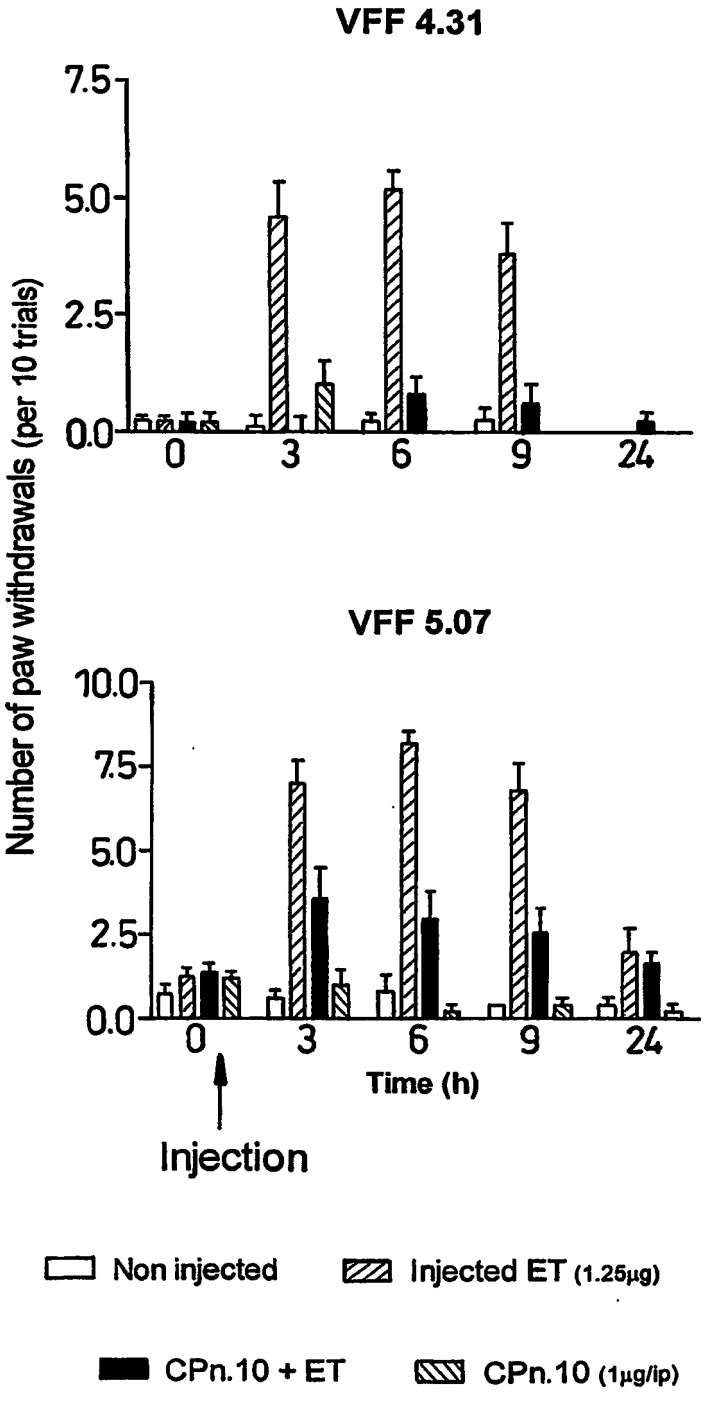
VFF 4.31
7.5
5.0
2.5
0.0
0
3
6
9
24
VFF 5.07
10.0
7.5
5.0
2.5
0.0
Number of paw withdrawals (per 10 trials)
Time (h)
Injection
Non injected
Injected ET (1.25µg)
CPn.10 + ET
CPn.10 (1µg/ip)

Fig. 8

11/11

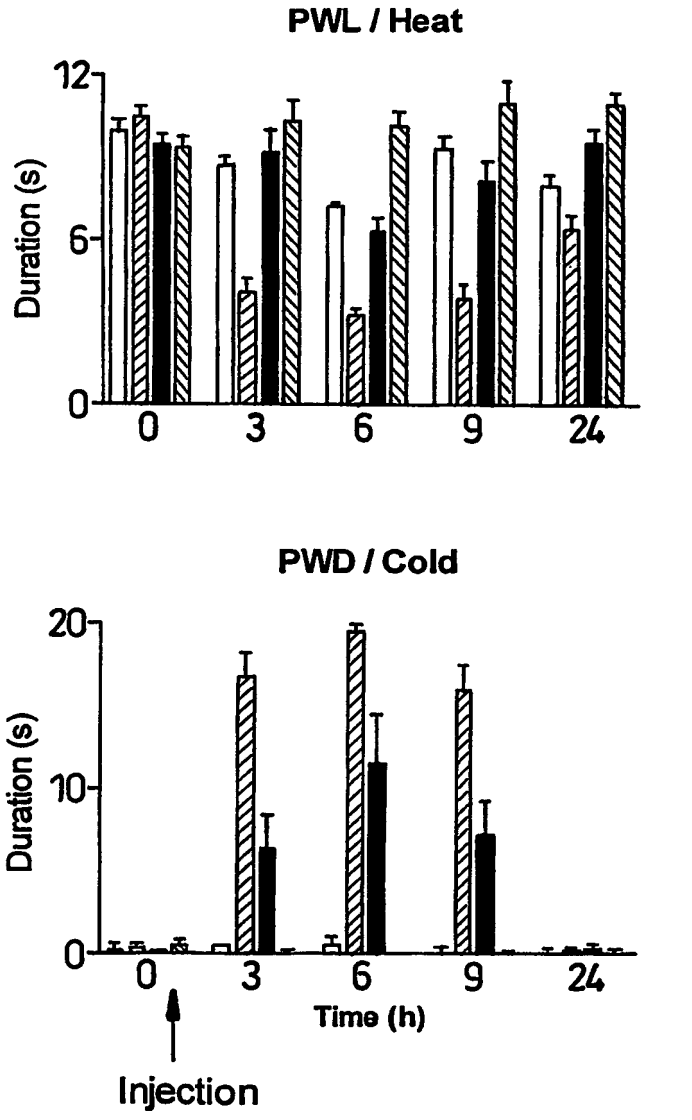
PWL / Heat
Duration (s)
12
6
0
0
3
6
9
24
PWD / Cold
Duration (s)
20
10
0
0
3
6
9
24
Time (h)
Injection
CPn.10 + ET
CPn.10 (1µg/ip)
Non injected
Injected ET (1.25µg)

Fig. 9